

Condition 102	Maximize Solar Orientation
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The applicant shall design the layout of the proposed sewer treatment facility to allow for structures to have roofs with "due south orientation" to maximize solar orientation for future solar photovoltaic and / or solar water panel installation, as feasible. No evergreen trees (with mature heights over 12 feet) shall be planted near structure that could potentially block the sun to these portions of the roofs unless necessary for visual screening. This shall be reflected in any landscape plans prepared / required. As a part of roof design / construction, these portions of the roofs shall be designed to be able to handle the "dead" loads associated with the weight of these panels. To further maximize solar efficiency, where possible, roof pitch of this portion of roof shall be as close to 20 degrees as practical. The applicant shall provide verification to the satisfaction of the County Planning and Building Department that the above measures have been incorporated into the project.


Evidence of compliance:

All the buildings have roofs with "due south orientation" to maximize solar orientation for future solar installation, as feasible. A 20 degree roof pitch corresponds to a ratio of 1 foot vertical to 2.75 foot horizontal. Anything less than 2.75 foot horizontal would correspond to a steeper roof pitch, as a 45 degree angle corresponds to ratio of 1 foot horizontal to 1 foot vertical. The overall site plan shows the building orientation (Attachment 1), and the following lists each building's roof pitch:


- The Administration Building is labeled as Key Note 1 in the overall site plan, and is shown in Attachment 2. The roof pitch is 1V:3H, which corresponds to an 18.3 degree pitch.
- The Maintenance Building is labeled as Key Note 2 in the overall site plan, and is shown in Attachment 3. The roof pitch is 1V: 2.4H, which corresponds to a 22.6 degree pitch.
- The Dewatering Building is labeled as Key Note 13 in the overall site plan, and is shown in Attachment 4. The roof pitch is 1V: 4V, which corresponds to a 14 degree pitch.
- The Electrical Building is labeled as Key Note 16 in the overall site, and is shown in Attachment 5. Due to available site constraints and from an operations access standpoint, we cannot rotate the electrical building. The roof pitch is 1V: 4V, which corresponds to a 14 degree pitch.

Please also refer to the attached landscaping plan which shows that no trees are proposed to be planted along the south side of any building.

Condition Satisfied



Director, SLO County Planning



Date